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integral operation unit when the rotary body is magnetically levitated in the vicinity of one of limit positions in the direction of the control axis determined by the mechanical restraining means and an
5 integral output of the integral operation unit when the rotary body is magnetically levitated in the vicinity of the other limit position.

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2. A magnetic bearing device according to claim 1 which is characterized in that the target position
10 setting means is adapted to position the rotary body at said one limit position, thereafter magnetically levitate the rotary body in the vicinity thereof, obtain the integral output at this time to store the output as a first limit position integral output in a memory,
15 gradually shift the magnetically levitated position of the rotary body toward said other limit position, determine the position of the rotary body every time the rotary body is so shifted by a small distance at a time and the corresponding integral output for storage as an
20 intermediate position and an intermediate position integral output in the memory, move the rotary body to said other limit position, thereafter magnetically levitate the rotary body in the vicinity thereof, obtain the integral output at this time for use as a second

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limit position integral output, determine the median of the first limit position integral output and the second limit position integral output, and select the output most proximate to the median from among the intermediate
5 position integral outputs stored in the memory to determine the intermediate position corresponding to the selected intermediate position integral output as the target levitated position.

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